

# David K Sing

## List of Publications by Year in descending order

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105  
papers

9,578  
citations

36303

51  
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39675

94  
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109  
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109  
docs citations

109  
times ranked

3054  
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative abundance constraints from high-resolution optical transmission spectroscopy of WASP-121b, and a fast model-filtering technique for accelerating retrievals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 4618-4638.	4.4	26
2	Strong H <sub>2</sub> O and CO Emission Features in the Spectrum of KELT-20b Driven by Stellar UV Irradiation. <i>Astrophysical Journal Letters</i> , 2022, 925, L3.	8.3	16
3	Diurnal variations in the stratosphere of the ultrahot giant exoplanet WASP-121b. <i>Nature Astronomy</i> , 2022, 6, 471-479.	10.1	26
4	The Hubble PanCET Program: Emission Spectrum of Hot Jupiter HAT-P-41b. <i>Astronomical Journal</i> , 2022, 163, 190.	4.7	1
5	A comprehensive analysis of WASP-17b's transmission spectrum from space-based observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 4185-4209.	4.4	11
6	Evidence that the Hot Jupiter WASP-77 A b Formed Beyond Its Parent Protoplanetary Disk's H <sub>2</sub> O Ice Line. <i>Astronomical Journal</i> , 2022, 163, 159.	4.7	20
7	Analysis of a JWST NIRSpec Lab Time Series: Characterizing Systematics, Recovering Exoplanet Transit Spectroscopy, and Constraining a Noise Floor. <i>Astrophysical Journal Letters</i> , 2022, 928, L7.	8.3	22
8	UV absorption by silicate cloud precursors in ultra-hot Jupiter WASP-178b. <i>Nature</i> , 2022, 604, 49-52.	27.8	21
9	The Emission Spectrum of the Hot Jupiter WASP-79b from HST/WFC3. <i>Astronomical Journal</i> , 2022, 163, 7.	4.7	4
10	Signatures of strong magnetization and a metal-poor atmosphere for a Neptune-sized exoplanet. <i>Nature Astronomy</i> , 2022, 6, 141-153.	10.1	26
11	Solar-to-supersolar sodium and oxygen absolute abundances for a hot Saturn orbiting a metal-rich star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 3037-3058.	4.4	15
12	The Hubble PanCET Program: A Featureless Transmission Spectrum for WASP-29b and Evidence of Enhanced Atmospheric Metallicity on WASP-80b. <i>Astronomical Journal</i> , 2022, 164, 30.	4.7	4
13	Evidence of a Clear Atmosphere for WASP-62b: The Only Known Transiting Gas Giant in the JWST Continuous Viewing Zone. <i>Astrophysical Journal Letters</i> , 2021, 906, L10.	8.3	20
14	TESS Observations of the WASP-121 b Phase Curve. <i>Astronomical Journal</i> , 2021, 161, 131.	4.7	23
15	Gemini/GMOS optical transmission spectroscopy of WASP-121b: signs of variability in an ultra-hot Jupiter?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 4787-4801.	4.4	25
16	HST PanCET program: non-detection of atmospheric escape in the warm Saturn-sized planet WASP-29 b. <i>Astronomy and Astrophysics</i> , 2021, 649, A40.	5.1	7
17	A New Window into Planet Formation and Migration: Refractory-to-Volatile Elemental Ratios in Ultra-hot Jupiters. <i>Astrophysical Journal</i> , 2021, 914, 12.	4.5	43
18	The Hubble PanCET program: long-term chromospheric evolution and flaring activity of the M dwarf host GJ 3470. <i>Astronomy and Astrophysics</i> , 2021, 650, A73.	5.1	8

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19	An inventory of atomic species in the atmosphere of WASP-121b using LIVES high-resolution spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 3853-3871.	4.4	35
20	The impact of mixing treatments on cloud modelling in 3D simulations of hot Jupiters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 4500-4515.	4.4	19
21	Ground-based Transmission Spectroscopy with VLT FORS2: Evidence for Faculae and Clouds in the Optical Spectrum of the Warm Saturn WASP-110b. <i>Astronomical Journal</i> , 2021, 162, 88.	4.7	6
22	The Hubble PanCET Program: Transit and Eclipse Spectroscopy of the Strongly Irradiated Giant Exoplanet WASP-76b. <i>Astronomical Journal</i> , 2021, 162, 108.	4.7	23
23	GRAVITY <i>K</i> -band spectroscopy of HD 206893 B. <i>Astronomy and Astrophysics</i> , 2021, 652, A57.	5.1	12
24	HST PanCET Program: A Complete Near-UV to Infrared Transmission Spectrum for the Hot Jupiter WASP-79b. <i>Astronomical Journal</i> , 2021, 162, 138.	4.7	21
25	Detection of Ionized Calcium in the Atmosphere of the Ultra-hot Jupiter WASP-76b. <i>Astrophysical Journal Letters</i> , 2021, 919, L15.	8.3	18
26	The Hubble PanCET Program: A Metal-rich Atmosphere for the Inflated Hot Jupiter HAT-P-41b. <i>Astronomical Journal</i> , 2021, 161, 51.	4.7	16
27	A unique hot Jupiter spectral sequence with evidence for compositional diversity. <i>Nature Astronomy</i> , 2021, 5, 1224-1232.	10.1	40
28	The Hubble PanCET program: Transit and Eclipse Spectroscopy of the Hot-Jupiter WASP-74b. <i>Astronomical Journal</i> , 2021, 162, 271.	4.7	3
29	Non-detection of TiO and VO in the atmosphere of WASP-121b using high-resolution spectroscopy. <i>Astronomy and Astrophysics</i> , 2020, 636, A117.	5.1	59
30	Abundance measurements of H <sub>2</sub> O and carbon-bearing species in the atmosphere of WASP-127b confirm its supersolar metallicity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 4042-4064.	4.4	28
31	A library of self-consistent simulated exoplanet atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4680-4704.	4.4	36
32	Ground-based transmission spectroscopy with FORS2: A featureless optical transmission spectrum and detection of H <sub>2</sub> O for the ultra-hot Jupiter WASP-103b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 5155-5170.	4.4	20
33	Optical to Near-infrared Transmission Spectrum of the Warm Sub-Saturn HAT-P-12b. <i>Astronomical Journal</i> , 2020, 159, 234.	4.7	21
34	Transmission Spectroscopy of WASP-79b from 0.6 to 5.0 $\mu$ m. <i>Astronomical Journal</i> , 2020, 159, 5.	4.7	22
35	Detection of Na, K, and H <sub>2</sub> O in the hazy atmosphere of WASP-6b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5449-5472.	4.4	30
36	WASP-52b. The effect of star-spot correction on atmospheric retrievals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5361-5375.	4.4	30

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37	Confirmation of water emission in the dayside spectrum of the ultrahot Jupiter WASP-121b. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1638-1644.	4.4	46
38	Detection of Fe ii in the atmosphere of the ultra-hot Jupiter WASP-121b, and a new likelihood-based approach for Doppler-resolved spectroscopy. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2215-2228.	4.4	112
39	Statistical Characterization of Hot Jupiter Atmospheres Using Spitzer's Secondary Eclipses. Astronomical Journal, 2020, 159, 137.	4.7	72
40	Into the UV: A Precise Transmission Spectrum of HAT-P-41b Using Hubble's WFC3/UVIS G280 Grism. Astronomical Journal, 2020, 159, 204.	4.7	36
41	The Hubble Space Telescope PanCET Program: An Optical to Infrared Transmission Spectrum of HAT-P-32Ab. Astronomical Journal, 2020, 160, 51.	4.7	26
42	UV Exoplanet Transmission Spectral Features as Probes of Metals and Rainout. Astrophysical Journal Letters, 2020, 898, L14.	8.3	36
43	Into the UV: The Atmosphere of the Hot Jupiter HAT-P-41b Revealed. Astrophysical Journal Letters, 2020, 902, L19.	8.3	25
44	The Hubble Space Telescope PanCET Program: Exospheric Mg ii and Fe ii in the Near-ultraviolet Transmission Spectrum of WASP-121b Using Jitter Decorrelation. Astronomical Journal, 2019, 158, 91.	4.7	112
45	Overcast on Osiris: 3D radiative-hydrodynamical simulations of a cloudy hot Jupiter using the parametrized, phase-equilibrium cloud formation code EddySed. Monthly Notices of the Royal Astronomical Society, 2019, 488, 1332-1355.	4.4	39
46	An emission spectrum for WASP-121b measured across the 0.8–1.1 $\mu$ m wavelength range using the Hubble Space Telescope. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2222-2234.	4.4	61
47	High-resolution confirmation of an extended helium atmosphere around WASP-107b. Astronomy and Astrophysics, 2019, 623, A58.	5.1	93
48	The carbon-to-oxygen ratio: implications for the spectra of hydrogen-dominated exoplanet atmospheres. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1123-1137.	4.4	26
49	Revisiting the potassium feature of WASP-31b at high resolution. Monthly Notices of the Royal Astronomical Society, 2019, 482, 606-615.	4.4	24
50	The Hubble PanCET program: an extensive search for metallic ions in the exosphere of GJ 436 b. Astronomy and Astrophysics, 2019, 629, A47.	5.1	34
51	A Hubble PanCET Study of HAT-P-11b: A Cloudy Neptune with a Low Atmospheric Metallicity. Astronomical Journal, 2019, 158, 244.	4.7	37
52	Fully scalable forward model grid of exoplanet transmission spectra. Monthly Notices of the Royal Astronomical Society, 2019, 482, 4503-4513.	4.4	33
53	A library of ATMO forward model transmission spectra for hot Jupiter exoplanets. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5158-5185.	4.4	86
54	The Complete Transmission Spectrum of WASP-39b with a Precise Water Constraint. Astronomical Journal, 2018, 155, 29.	4.7	142

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55	Helium in the eroding atmosphere of an exoplanet. <i>Nature</i> , 2018, 557, 68-70.	27.8	239
56	Observable Signatures of Wind-driven Chemistry with a Fully Consistent Three-dimensional Radiative Hydrodynamics Model of HD 209458b. <i>Astrophysical Journal Letters</i> , 2018, 855, L31.	8.3	56
57	An Optical Transmission Spectrum for the Ultra-hot Jupiter WASP-121b Measured with the Hubble Space Telescope. <i>Astronomical Journal</i> , 2018, 156, 283.	4.7	106
58	The 3D Thermal, Dynamical, and Chemical Structure of the Atmosphere of HD 189733b: Implications of Wind-driven Chemistry for the Emission Phase Curve. <i>Astrophysical Journal</i> , 2018, 869, 28.	4.5	47
59	<i>Hubble</i> PanCET: an extended upper atmosphere of neutral hydrogen around the warm Neptune GJ 3470b. <i>Astronomy and Astrophysics</i> , 2018, 620, A147.	5.1	128
60	Spectrally resolved helium absorption from the extended atmosphere of a warm Neptune-mass exoplanet. <i>Science</i> , 2018, 362, 1384-1387.	12.6	152
61	The HST PanCET Program: Hints of Na i and Evidence of a Cloudy Atmosphere for the Inflated Hot Jupiter WASP-52b. <i>Astronomical Journal</i> , 2018, 156, 298.	4.7	30
62	A Framework for Prioritizing the <i>TESS</i> Planetary Candidates Most Amenable to Atmospheric Characterization. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114401.	3.1	314
63	The Transiting Exoplanet Community Early Release Science Program for <i>JWST</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	3.1	100
64	Exonephology: transmission spectra from a 3D simulated cloudy atmosphere of HD 209458b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 194-205.	4.4	45
65	Hubble PanCET: an isothermal day-side atmosphere for the bloated gas-giant HAT-P-32Ab. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1705-1717.	4.4	55
66	Observational Techniques with Transiting Exoplanetary Atmospheres. <i>Astrophysics and Space Science Library</i> , 2018, , 3-48.	2.7	11
67	An absolute sodium abundance for a cloud-free $\sim$ hot Saturn <sup>TM</sup> exoplanet. <i>Nature</i> , 2018, 557, 526-529.	27.8	114
68	HAT-P-26b: A Neptune-mass exoplanet with a well-constrained heavy element abundance. <i>Science</i> , 2017, 356, 628-631.	12.6	175
69	The Very Low Albedo of WASP-12b from Spectral Eclipse Observations with Hubble. <i>Astrophysical Journal Letters</i> , 2017, 847, L2.	8.3	63
70	An ultrahot gas-giant exoplanet with a stratosphere. <i>Nature</i> , 2017, 548, 58-61.	27.8	192
71	HST PanCET Program: A Cloudy Atmosphere for the Promising JWST Target WASP-101b. <i>Astrophysical Journal Letters</i> , 2017, 835, L12.	8.3	56
72	A CONSISTENT RETRIEVAL ANALYSIS OF 10 HOT JUPITERS OBSERVED IN TRANSMISSION. <i>Astrophysical Journal</i> , 2017, 834, 50.	4.5	180

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73	VLT/FORS2 comparative transmission spectroscopy II: Confirmation of a cloud deck and Rayleigh scattering in WASP-31b, but no potassium?. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4591-4605.	4.4	71
74	VLT FORS2 COMPARATIVE TRANSMISSION SPECTROSCOPY: DETECTION OF Na IN THE ATMOSPHERE OF WASP-39b FROM THE GROUND. Astrophysical Journal, 2016, 832, 191.	4.5	105
75	DETECTION OF H <sub>2</sub> O AND EVIDENCE FOR TiO/VO IN AN ULTRA-HOT EXOPLANET ATMOSPHERE. Astrophysical Journal Letters, 2016, 822, L4.	8.3	181
76	HST HOT-JUPITER TRANSMISSION SPECTRAL SURVEY: CLEAR SKIES FOR COOL SATURN WASP-39b. Astrophysical Journal, 2016, 827, 19.	4.5	73
77	THE ATMOSPHERIC CIRCULATION OF A NINE-HOT-JUPITER SAMPLE: PROBING CIRCULATION AND CHEMISTRY OVER A WIDE PHASE SPACE. Astrophysical Journal, 2016, 821, 9.	4.5	134
78	Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program. Publications of the Astronomical Society of the Pacific, 2016, 128, 094401.	3.1	98
79	A continuum from clear to cloudy hot-Jupiter exoplanets without primordial water depletion. Nature, 2016, 529, 59-62.	27.8	714
80	MARGINALIZING INSTRUMENT SYSTEMATICS IN HST WFC3 TRANSIT LIGHT CURVES. Astrophysical Journal, 2016, 819, 10.	4.5	80
81	HST hot-Jupiter transmission spectral survey: detection of potassium in WASP-31b along with a cloud deck and Rayleigh scattering. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2428-2443.	4.4	172
82	HST hot-Jupiter transmission spectral survey: haze in the atmosphere of WASP-6b. Monthly Notices of the Royal Astronomical Society, 2015, 447, 463-478.	4.4	129
83	A giant comet-like cloud of hydrogen escaping the warm Neptune-mass exoplanet GJ 436b. Nature, 2015, 522, 459-461.	27.8	383
84	Transmission spectral properties of clouds for hot Jupiter exoplanets. Astronomy and Astrophysics, 2015, 573, A122.	5.1	142
85	Hubble Space Telescope hot Jupiter transmission spectral survey: a detection of Na and strong optical absorption in HAT-P-1b. Monthly Notices of the Royal Astronomical Society, 2014, 437, 46-66.	4.4	151
86	THE DEEP BLUE COLOR OF HD 189733b: ALBEDO MEASUREMENTS WITH HUBBLE SPACE TELESCOPE /SPACE TELESCOPE IMAGING SPECTROGRAPH AT VISIBLE WAVELENGTHS. Astrophysical Journal Letters, 2013, 772, L16.	8.3	138
87	An HST optical-to-near-IR transmission spectrum of the hot Jupiter WASP-19b: detection of atmospheric water and likely absence of TiO. Monthly Notices of the Royal Astronomical Society, 2013, 434, 3252-3274.	4.4	167
88	HST hot Jupiter transmission spectral survey: detection of water in HAT-P-1b from WFC3 near-IR spatial scan observations. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3481-3493.	4.4	103
89	The prevalence of dust on the exoplanet HD 189733b from Hubble and Spitzer observations. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2917-2944.	4.4	334
90	HST hot-Jupiter transmission spectral survey: evidence for aerosols and lack of TiO in the atmosphere of WASP-12b. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2956-2973.	4.4	168

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91	A GROUND-BASED OPTICAL TRANSMISSION SPECTRUM OF WASP-6b. <i>Astrophysical Journal</i> , 2013, 778, 184.	4.5	100
92	Magnesium in the atmosphere of the planet HD 209458b: observations of the thermosphere-exosphere transition region. <i>Astronomy and Astrophysics</i> , 2013, 560, A54.	5.1	103
93	Atmospheric escape from HD 189733b observed in H Lyman- $\alpha$ : detailed analysis of HST/STIS September 2011 observations. <i>Astronomy and Astrophysics</i> , 2013, 551, A63.	5.1	110
94	Hint of a transiting extended atmosphere on 55 Cancri b. <i>Astronomy and Astrophysics</i> , 2012, 547, A18.	5.1	126
95	GTC OSIRIS transiting exoplanet atmospheric survey: detection of sodium in XO-2b from differential long-slit spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 1663-1670.	4.4	111
96	Temporal variations in the evaporating atmosphere of the exoplanet HD 189733b. <i>Astronomy and Astrophysics</i> , 2012, 543, L4.	5.1	205
97	Probing the haze in the atmosphere of HD 189733b with Hubble Space Telescope/WFC3 transmission spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 753-760.	4.4	124
98	Temperature-pressure profile of the hot Jupiter HD 189733b from HST sodium observations: detection of upper atmospheric heating. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 2477-2488.	4.4	164
99	Gran Telescopio Canarias OSIRIS transiting exoplanet atmospheric survey: detection of potassium in XO-2b from narrowband spectrophotometry. <i>Astronomy and Astrophysics</i> , 2011, 527, A73.	5.1	108
100	Hubble Space Telescope transmission spectroscopy of the exoplanet HD 189733b: high-altitude atmospheric haze in the optical and near-ultraviolet with STIS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 1443-1455.	4.4	335
101	DAY-SIDE $z$ -BAND EMISSION AND ECCENTRICITY OF WASP-12b. <i>Astrophysical Journal Letters</i> , 2010, 716, L36-L40.	8.3	66
102	Stellar limb-darkening coefficients for CoRoT and Kepler. <i>Astronomy and Astrophysics</i> , 2010, 510, A21.	5.1	258
103	Evaporation of the planet HD 189733b observed in H Lyman- $\alpha$ . <i>Astronomy and Astrophysics</i> , 2010, 514, A72.	5.1	281
104	Hubble Space Telescope STIS Optical Transit Transmission Spectra of the Hot Jupiter HD 209458b. <i>Astrophysical Journal</i> , 2008, 686, 658-666.	4.5	148
105	The signature of hot hydrogen in the atmosphere of the extrasolar planet HD 209458b. <i>Nature</i> , 2007, 445, 511-514.	27.8	128